

JAYARAM PRABHU DURAIRAJ

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OBJECTIVE:

Seeking an internship in the field of Computer Engineering area

EDUCATION:

California State University, Sacramento, California

Expected graduation date: May 2010

M.S. in Computer Engineering

GPA : 3.8 / 4.0

Coimbatore Institute of Technology, TN, INDIA (CIT)

May 2006

B.E. in Electronics & Communication Engineering, emphasis in Computer Engineering

GPA : 8.3 / 10.0

COURSEWORK:

- Data Structure & Algorithm Analysis
- Micro Computer System Design
- Hierarchical Digital Design*
- Digital Electronics
- Advanced Computer Architecture
- Advanced Operating System Principles and Design*
- Advanced Data Communication System*
- Electron Devices and Circuits

TECHNICAL PROFICIENCY:

Operating Systems : Windows 9X/ NT/ 2000/ XP, UNIX, LINUX
Languages : Core Java, C, Verilog, Perl
Engineering Tools : Xilinx ISE, Model Sim, Simics, Synopsys-Design Vision*
Other Technologies : JavaScript, HTML, PHP, AJAX, JAVA-J2EE

COURSE PROJECTS:

Micro Computer System Design Projects:

- **Cache Memory System:** Member of a team of engineers in the design of a write-through fully associative cache sub system for a 32 bit Pentium processor with 32 bit wide data bus with no other bus system.
- **PCI Device Design:** Member of a team of engineers in the design of PCI arbitration logic for PCI devices, where the host executed a write transaction followed by a read transaction from initiator to target.

Environment - Xilinx ISE, Model Sim, Verilog

Advanced Computer Architecture Projects:

- Designed computer classification schemes, fine and coarse grain parallelism, processor interconnections, and performance issues of multiprocessor systems.
- Created one-processor and 4-processor (shared memory) Simics virtual systems to investigate their performance when a 4-threaded program executes with different cache sub systems.

Environment - Simics, Python, Cygwin, C

WORK EXPERIENCE:

iNautix Technologies (Chennai, TN, INDIA): Application Developer

Middleware Group:

October 2006 – June 2008

- Completed event driven system centered on Java NIO and designed based on the requirements from Client – Server TCP Socket Programming in a package named JCOMM at iNautix.
- Managed many development projects under MQCentral, a Web Application which helps to track all Messages flowing through Middleware Gateways at iNautix.

Environment - INAUTILUS (internal application), C, CORE-JAVA, UNIX, ORACLE, JAVA-J2EE, HTML, Java Script, AJAX

OTHER WORK EXPERIENCES:

Candidate

Peak Adventures, CSUS

09/08– present

PROFESSIONAL ACTIVITIES AND ACCOMPLISHMENTS:

- Member of CSI, IEEE, ACM
- First rank holder in my Higher Secondary Examination at district level with 96.58%.
- Obtained "C.A.Ramasamy Chettiar Memorial Award" for securing First Mark in the Engineering Drawing Subject during my Bachelor's degree.
- Maintained 3.8 GPA in CSUS while balancing a campus job.

*Subjects and tools used in Spring 2009